

# **DATA SECURITY DEVICE FOR DATA STORAGE MEDIUM**

## **ABSTRACT OF THE DISCLOSURE**

A data security device for data storage medium includes a USB mass  
5 storage class controller connected to an operation system, such as a  
personal computer, and a data protection device connecting the USB mass  
storage class controller to a data storage medium. The data security  
device may be incorporated in a USB-based data accessing device and  
can be activated by a user via the operation system. The data protection  
10 device includes a write protection unit which provides write protection to  
the data storage medium when data are to be written by the operation  
system to the data storage medium, an enciphering unit which enciphers  
data written into the data storage medium and a deciphering unit which  
deciphers the enciphered data stored in the data storage medium when the  
15 operation system retrieves data from the data storage medium.